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APPLICATION NO		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/721,337		11/26/2003	Hidehiko Hori	2257-0239P	8371
2292	7590	05/27/2004		EXAMINER	
21110		T KOLASCH & B	BLACKMAN, ROCHELLE ANN J		
PO BOX 747 FALLS CHURCH、VA 22040-0747				ART UNIT	PAPER NUMBER
	,			2851	
				DATE MAILED: 05/27/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Offic Action Summary	10/721,337	HORI, HIDEHIKO  Art Unit					
<b></b>	Examiner  Rochelle Blackman	2851					
The MAILING DATE of this communication ap							
Period for Reply		,					
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be ly within the statutory minimum of thirty (30) d will apply and will expire SIX (6) MONTHS fro e, cause the application to become ABANDOI	timely filed lays will be considered timely. om the mailing date of this communication. NED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 26 N	lovember 2003.						
	s action is non-final.						
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1-8</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-8</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/o	or election requirement.						
Application Papers							
9) The specification is objected to by the Examino	er .						
10)⊠ The drawing(s) filed on <u>26 November 2003</u> is/a		cted to by the Examiner					
Applicant may not request that any objection to the	, , ,						
Replacement drawing sheet(s) including the correct	* ' '	` '					
11) The oath or declaration is objected to by the E	• • • • • • • • • • • • • • • • • • • •	•					
Priority under 35 U.S.C. § 119							
	nniority under 35 H.S.C. & 110	(a)-(d) or (f)					
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a)⊠ All b)□ Some * c)□ None of:							
1.⊠ Certified copies of the priority documen	ts have been received						
Certified copies of the priority document		ation No					
3. Copies of the certified copies of the prior	• •						
application from the International Burea	•	rou iii iiiio raalonal olago					
* See the attached detailed Office action for a list	, , , ,	ved.					
<b>A.</b>							
Attachment(s)	4) 🗖 Imbamilani 0./	Dr. (BTO 443)					
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summa Paper No(s)/Mail						
<ol> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>11/26/03</u>.</li> </ol>		l Patent Application (PTO-152)					

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#### **DETAILED ACTION**

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 5 are rejected under 35 U.S.C. 102(b) as being anticipated by Shikama et al., U.S. Patent No. 5,6345704.

Regarding claim 1, Shikama discloses an "optical system" (see FIG. 5) configured to guide light emitted from a "lamp source" (see 21 of FIG. 5) to an "image display region" (see 70 of FIGS. 6A and 6C) of a "reflection type display device" (see 61 of FIG. 5) along a predetermined optical path, to reflect a light component for forming an image to be projected by said image display region of said reflection type display device m and to project a reflected light component onto a "predetermined screen" (see SC of FIG. 5), wherein a "light guiding member for reflecting therein light" (see 30 of FIGS. 5, 6B, and 6D) entering through a "light entering surface" (see area of "light guiding member" 30 near element S1 in FIG. 5) several times to cause light having a uniform illumination distribution to outgo from a "light outgoing surface" (see 30B of FIG. 5) is inserted into an optical path between said lamp source and said reflection type display device, and "said light outgoing surface of said light guiding member is formed in a dissimilar shape with said image display region of said reflection type display device" (see 24 and 30 of FIGS.

5, 6B, and 6D along with col. 11, lines 11-18), and a "region irradiated with light in said image display region is smaller than said image display region" (see 70, 73, and 74 of FIGS. 6A and 6C along with col. 11, lines 11-18).

Regarding claim 5, Shikama discloses a "projection type image display apparatus" (see FIG. 5) configured to guide light emitted from a "lamp source" (see 21 of FIG. 5) to an "image display region" (see 70 of FIGS. 6A and 6C) of a "reflection type display device" (see 61 of FIG. 5) along a predetermined optical path, to reflect a light component for forming an image to be projected by said image display region of said reflection type display device, and to project a reflected light component onto a "predetermined screen"(see SC of FIG. 5), wherein a "light guiding member for reflecting therein light" (see 30 of FIGS. 5, 6B, and 6D) entering through a "light entering surface" (see are of "light guiding member" 30 near element S1 in FIG. 5) several times to cause light having a uniform illumination distribution to outgo from a "light outgoing surface" (see 30B of FIG. 5) is inserted into an optical path between said lamp source and said reflection type display device, and "said light outgoing surface of said light guiding member is formed in a dissimilar shape with said image display region of said reflection type display device" (see 24 and 30 of FIGS. 5, 6B, and 6D along with col. 11, lines 11-18), and a "region irradiated with light in said image display region is smaller than said image display region" (see 70, 73, and 74 of FIGS. 6A and 6C along with col. 11, lines 11-18).

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## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2-4 and 6-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shikama et al., U.S. Patent No. 5,6345704 as applied to claims 1 and 5 above, and further in view of Takahashi, U.S. Patent No. 6,657,725.

Shikama discloses the claimed invention except for an optical system and/or projection type image display apparatus comprising a "light shielding member for shielding light passing outside" a "reflection surface"; "wherein said light shielding member is a light shielding plate provided independently of said light guiding member"; and "wherein said light shielding member is provided on an end face of said rectangular tube member".

Takahashi discloses a scanning projection exposure apparatus including a masking blade 7 and slit 6, provided in the optical axis, independent of beam shaping optical system 2 and optical integrator 3 and at exit areas thereof, that can change an illumination area width in the scanning direction, excluding a portion of this area (see FIG. 1 and abstract).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide a masking blade and slit in the optical axis, independent of, and at an exit area of the "light guiding member" of the Shikama reference, as taught

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by Takahashi in order to change the illumination area width of the "image display region", excluding a portion of the "image display region" in the Shikama reference.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rochelle Blackman whose telephone number is (571) 272-2113. The examiner can normally be reached on M-F 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Russell Adams can be reached on (571) 272-2851. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RB

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800